Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	16 October 2022
Team ID	PNT2022TMID18172
Project Name	Exploratory Analysis of Rainfall Data in India for Agriculture
Maximum Marks	4 Marks

Functional Requirements:
Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Login	Registration through Form Registration through Google Registration through Git
FR-2	User details confirmation	Confirmation via Email
FR-3	Prediction details	User should enter the current location to get the predicted result.
FR-4	Forecasting Accuracy	Retrieve the forecasted weather conditions and measure the accuracy.
FR-5	Forecast	Forecasted flood probability from the rainfall amount is displayed on the webpage.
FR-6	Snapshots	The web page will display the condition as a report and pictures.

Non-functional Requirements:
Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	The usability of the website is to make all users will be satisfied with the our requirements of the product. The user should reach the summarized text or result with one button press if possible
NFR-2	**Security**	The security of the project is to develop the website that prevents SQL injection attack, XSS attack and DOS attack
NFR-3	**Reliability**	The reliability of the system is to make sure the website does not go offline. The users can be reach and use program at any time, so maintenance should not be a big issue.
NFR-4	**Performance**	The performance of the website is to provide data to all users without unnecessary delay and provide 24*7 availability
NFR-5	**Availability**	The availability of the website is that the website will be active on the Internet and people will be able to browse to it.
NFR-6	**Scalability**	The scalability of the system is we have limited our project to Indian cities and we have future plans to scale it to Continents level.